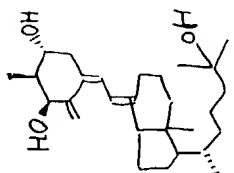


SLVNT CDCL3
OBNUC 1H
OBFREQ 399.65 MHz
OBSSET 124.00 KHz
OBSFIN 10905.1 Hz
PWL 5.9 us
POINT 32768
SAMPD 32768
SCANS 9216
DUMMY 0
FREQU 5000.0 Hz
FILTR 5000 Hz
ACQTM 3.277 sec
PD 5.000 sec
RGAIN 24
BF 0.10 Hz
T1 0.0 %
T2 0.0 %
T3 90.0 %
T4 100.0 %
EXMOD SGNDN
DFILE [100,140]FN0344
SHMFL THS
SPEED 15 Hz
OPERATOR J.SHIWODE



Experimental note of VDR binding affinity with English translation
Compound (68) / 20epi Aa / # 346 and Compound (72) / 20epi Ds / # 344

Experiment of Bovine Thymus VDR binding affinity (# 7)

- ① Make phosphate-potassium buffer Keeping at 4°C
- ② Diluted solution series of $1\alpha,25(\text{OH})_2\text{D}_3$, #344, #346
- ③ Concentration preparation of $[26,27\text{-methyl}^3\text{H}] 1\alpha,25(\text{OH})_2\text{D}_3$ solution
Take 100 μL and evaporate Add 6.25 mL of Japanese pharmacopeia grade ethanol
- ④ Pour sample / 50 μL Japanese pharmacopeia grade ethanol (②) into disposable culture tube (12 x 75 mm IWAKI) in concentration order (from thin to dense)
(like ⑭ ⑳ → ① ⑮)
⑧⑤ → ⑨⑥ are Japanese pharmacopeia grade ethanol only (by dispenser)
- ⑤ Make receptor solution (lot 110431 YAMASA)
Pour 5 mL of phosphate-potassium buffer (①) into a vessel containing thymus receptor and dissolve the receptor gently. Add further 50 mL of the buffer and stir gently
- ⑥ Add 500 μL of the receptor solution to each tubes except blank (⑧⑨ ⑨⑦ ⑨① ⑨②)
Add 500 μL of the buffer solution to each blank tube
- ⑦ Stir by vortex, avoid forming
- ⑧ Pre incubate at rt for 1 hr
Put the top on the tubes by plastic wrap & aluminum foil
13:40 ~ 14:40 rt approximately 22°C

RI room

- ⑨ Add 50 μ L of the hot solution (③) to each tubes by dispenser

In case of hot only count (⑨⑦ ⑨⑧ ⑨⑨ ⑩⑩), hot solution is added to vial tube

- ⑩ Stir by vortex, avoid forming

- ⑪ Put the top on the tubes by plastic wrap, put the tubes into 4°C refrigerator in RI room, and stand overnight

15:10~

97 16217.7 dpm

98 16349.9

99 16280.0

100 16634.8

101 54.3

102 28.3

103 42.7

104 56.9

Average 16370 dpm

" 45 dpm

Add 10 mL of ACS-II and measure radioactivity count for 1 min by Aloka A

Stand rt and measure radioactivity count for 2 min tomorrow

$$\left(\begin{array}{l} 16370 \text{ dpm} = 273 \text{ dps} = 273 \text{ Bq} \\ 11.4 \text{ GBq / mg therefore } 24 \text{ pg / tube} \end{array} \right)$$

~9:25

- ⑫ Put out the yesterday's samples from the refrigerator in RI room and add 200 μ L of DCC solution (lot M602 YAMASA) to each tubes by dispenser except total count tubes (93 94 95 96)

Add the buffer solution ① to each total count tubes

- ⑬ Vortex tubes

- ⑭ Stand for 30 min at 4°C 9:50~10:20

10:30~10:40

- ⑮ Centrifuge at 3000 rpm for 10 min at 0°C

- ⑯ Transfer 500 μ L of supernatant to 20 mL WHEATON vial

Lay ice on tray and put tube on the ice

[in concentration order (from thin to dense) ① → ⑭ same pipetter tip
Change pipetter tip ⑮ → ⑳]

- ⑰ Add 9.5 mL of ACS-II to each tubes, shake, and measure radioactivity count (2 min)

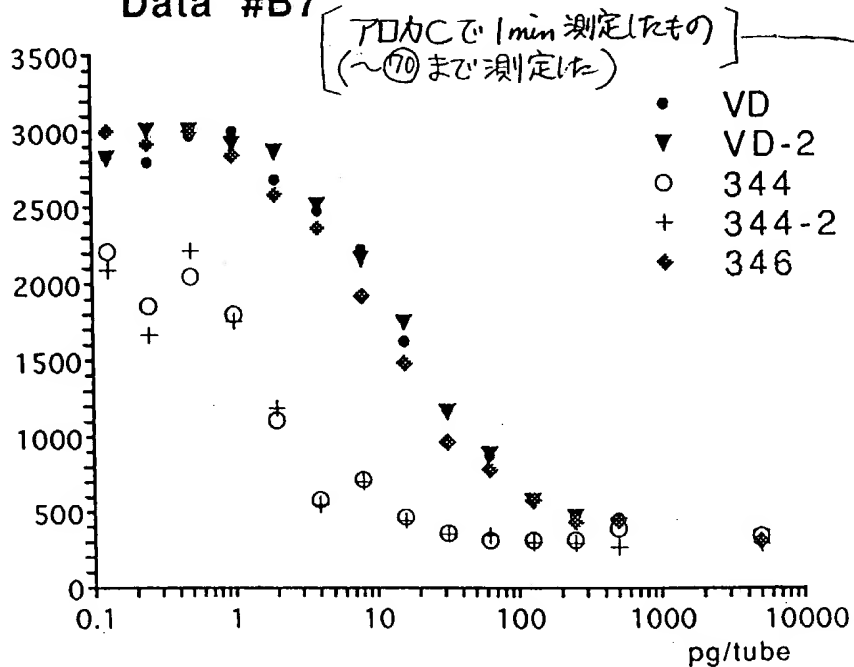
Aloka A

☆ バック
 ☆ バイアル
 ☆ カメラ
 ☆ センサマン 1000
 ☆ 200

☆ レンズ
 ☆ 4.7mm

No.
 Date
 ()

Data #B7



[This shows the results of 1 min measuring by Aloka C
 (measured to ~ 70)]

L3

10221

2811

1/50ul	10(250H) ₂ VD3	#344	#346
5ng	290 ¹⁵ 325 ²⁹	308 ⁴³ 296 ⁵⁷	338 ⁷¹ 305 ⁸⁵
500pg	357 ¹⁶ 363 ³⁰	325 ⁴⁴ 312 ⁵⁸	445 ⁷² 386 ⁸⁶
250	444 ¹⁷ 529 ³¹	318 ⁴⁵ 302 ⁵⁹	445 ⁷³ 477 ⁸⁷
125	608 ¹⁸ 623 ³²	326 ⁴⁶ 324 ⁶⁰	528 ⁷⁴ 573 ⁸⁸
63	802 ¹⁹ 806 ³³	349 ⁴⁷ 326 ⁶¹	698 ⁷⁵ 623 ⁸⁹
32	1094 ²⁰ 1166 ³⁴	391 ⁴⁸ 387 ⁶²	1041 ⁷⁶ 913 ⁹⁰
16	1701 ²¹ 1676 ³⁵	458 ⁴⁹ 369 ⁶³	1395 ⁷⁷ 1357 ⁹¹
8	2164 ²² 2109 ³⁶	658 ⁵⁰ 663 ⁶⁴	1834 ⁷⁸ 1822 ⁹²
4	2494 ²³ 2511 ³⁷	568 ⁵¹ 520 ⁶⁵	2428 ⁷⁹ 2180 ⁹³
2	2519 ²⁴ 2536 ³⁸	1145 ⁵² 1161 ⁶⁶	2766 ⁸⁰ 2499 ⁹⁴
1	2879 ²⁵ 2768 ³⁹	1739 ⁵³ 1819 ⁶⁷	2768 ⁸¹ 2763 ⁹⁵
0.5	2862 ²⁶ 2924 ⁴⁰	2081 ⁵⁴ 2062 ⁶⁸	2762 ⁸² 2768 ⁹⁶
0.25	2851 ²⁷ 2959 ⁴¹	1942 ⁵⁵ 1847 ⁶⁹	2910 ⁸³ 2834 ⁹⁷
0.13	2839 ²⁸ 2690 ⁴²	1987 ⁵⁶ 1932 ⁷⁰	2990 ⁸⁴ 2694 ⁹⁸

EXHIBIT 1 - MIR - SERIES

0	⁸⁵ 2744	⁸⁶ 2982	⁸⁷ 3149	⁸⁸ 3048	2980
blank	⁸⁹ 224	⁹⁰ 166	⁹¹ 174	⁹² 311	218
total count	⁹³ 7965	⁹⁴ 8280	⁹⁵ 8052	⁹⁶ 8325	8155
[入力量]	⁹⁷ 16184	⁹⁸ 15926	⁹⁹ 16360	¹⁰⁰ 16561	16257
blank	¹⁰¹ 27	¹⁰² 59	¹⁰³ 43	¹⁰⁴ 34	40

{ added amount }

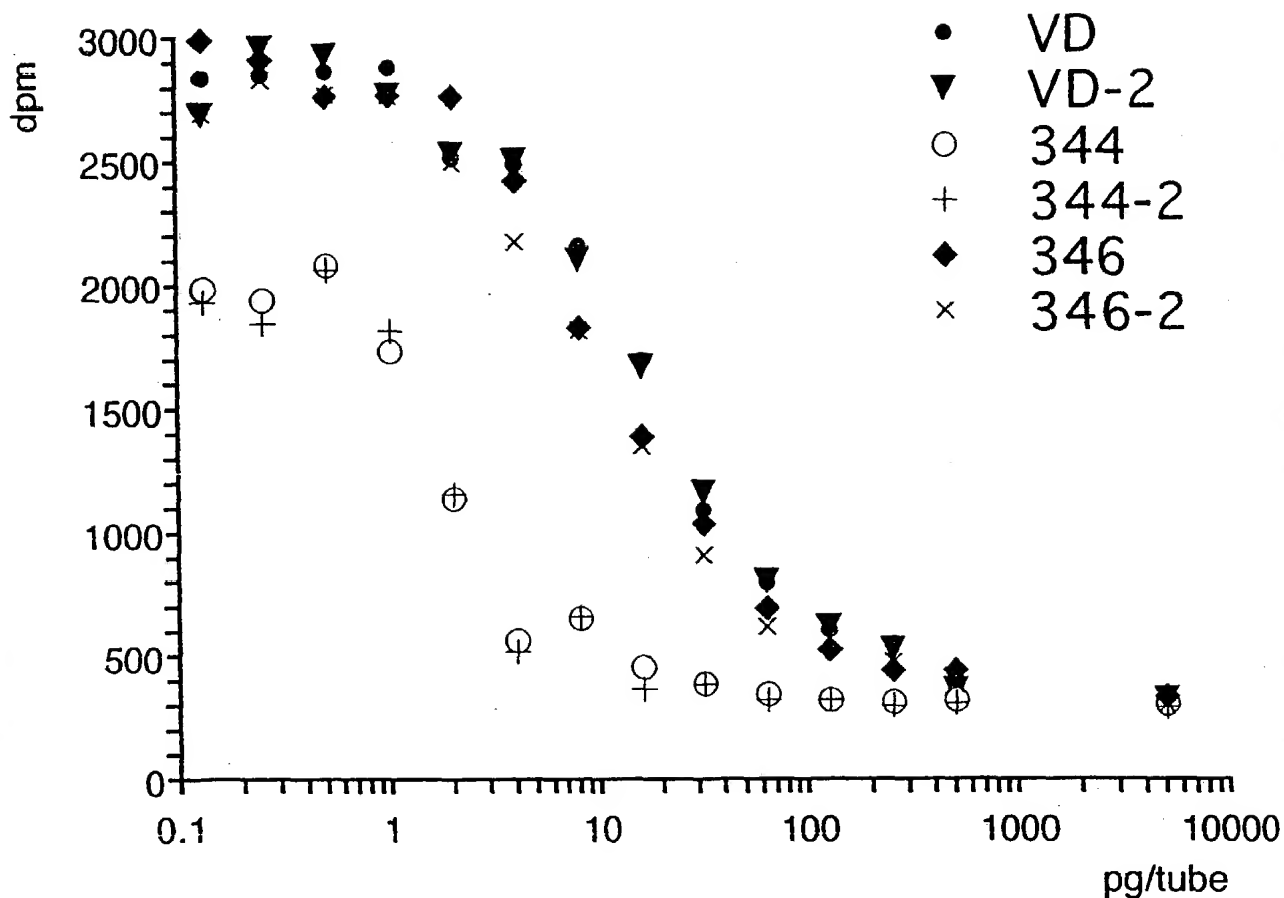
2762

[すべての実験値から 218 を引いて (2980 - 218) で
割り 100 して Bound [%] を計算]

Bound [%] was calculated as follows: Subtract 218 from all experimental values, then
this value divides by (2980 - 218) and multiply 100.

$$50 + 500 + \frac{50}{200}$$

#B7



	pg/tube	VD	VD-2	344	344-2	346	346-2
0	5000.0	290.00	325.00	308.000	296.00	338.00	305.00
1	500.00	357.00	363.00	325.000	312.00	445.00	386.00
2	250.00	444.00	529.00	318.000	302.00	445.00	477.00
3	125.00	608.00	623.00	326.000	324.00	528.00	573.00
4	63.000	802.00	806.00	349.000	326.00	698.00	623.00
5	32.000	1094.0	1166.0	391.000	387.00	1041.0	913.00
6	16.000	1701.0	1676.0	458.000	369.00	1395.0	1357.0
7	8.0000	2164.0	2109.0	658.000	663.00	1834.0	1822.0
8	4.0000	2494.0	2511.0	568.000	520.00	2428.0	2180.0
9	2.0000	2519.0	2536.0	1145.00	1161.0	2766.0	2499.0
10	1.0000	2879.0	2768.0	1739.00	1819.0	2768.0	2763.0
11	0.50000	2862.0	2924.0	2081.00	2062.0	2762.0	2768.0
12	0.25000	2851.0	2959.0	1942.00	1847.0	2910.0	2834.0
13	0.13000	2839.0	2690.0	1987.00	1932.0	2990.0	2694.0

dpm

<Results>

$$\text{blank} = 224 + 166 + 174 + 311 / 4 = 218$$

$$0 = 2744 + 2982 + 3149 + 3048 / 4 = 2980$$

Bound[%] was calculated as follows: Subtract 218 which is average value of blank from all experimental values, then this value divides by (subtract 218 from 2980 which is average value of drug 0)(2980 - 218 = 2762) and multiply 100

$$\text{total count} = 7965 + 8280 + 8052 + 8325 / 4 = 8155 \text{ dpm}$$

$$8155 / 60 \text{ dps} = 136 \text{ Bq} \text{ As I put } 500 \mu\text{L from } 800 \mu\text{L and measured radioactivity count}$$

$$136 \times 8 / 5 = 217 \text{ Bq}$$

$$11.4 \text{ GBq / mg therefore } 19 \text{ pg / tube } \quad]$$

As average added amount is 16257 dpm

from 271 Bq

$$24 \text{ pg / tube } \quad]$$

Approximately 80% of hot receptor exists in solution

and the rest should absorb an inside wall of glass tube

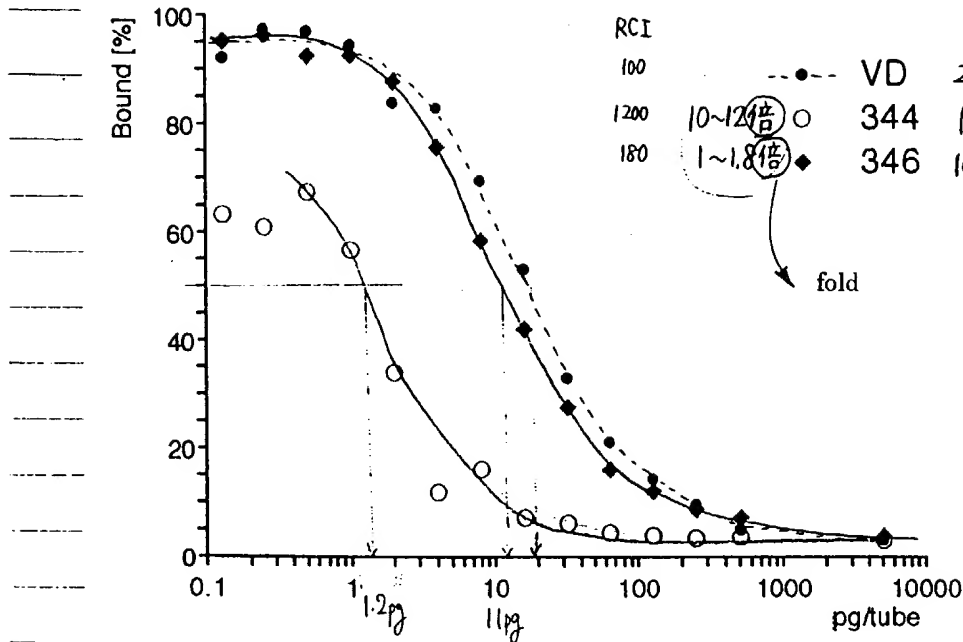
$$217 \text{ Bq / tube} = 217 / 4.85 \text{ T} / (50 + 500 + 50) \mu\text{L}$$

$$= 0.075 \text{ nM}$$

Or, it may exists as $1\alpha 25(\text{OH})_2$ and the rest may count of decompose stuff

Bovine
Chicken

#B7(edit)



pg/tube	VD	VD-2	VD-	344	344-2	344-	346	346-2	346-
5000.0	2.6068	3.8740	3.2404	3.25851	2.8240	3.0413	4.3447	3.1499	3.7473
500.00	5.0326	5.2498	5.1412	3.87400	3.4033	3.6387	8.2187	6.0825	7.1506
250.00	8.1825	11.260	9.7212	3.62056	3.0413	3.3309	8.2187	9.3773	8.7980
125.00	14.120	14.663	14.392	3.91021	3.8378	3.8740	11.224	12.853	12.038
63.000	21.144	21.289	21.217	4.74294	3.9102	4.3266	17.379	14.663	16.021
32.000	31.716	34.323	33.020	6.26358	6.1188	6.1912	29.797	25.163	27.480
16.000	53.693	52.788	53.240	8.68936	5.4671	7.0782	42.614	41.238	41.926
8.0000	70.456	68.465	69.461	15.9305	16.112	16.021	58.508	58.074	58.291
4.0000	82.404	83.020	82.712	12.6720	10.934	11.803	80.014	71.035	75.525
2.0000	83.309	83.925	83.617	33.5626	34.142	33.852	92.252	82.585	87.419
1.0000	96.343	92.324	94.334	55.0688	57.965	56.517	92.324	92.143	92.234
0.50000	95.728	97.972	96.850	67.4511	66.763	67.107	92.107	92.324	92.216
0.25000	95.329	99.240	97.285	62.4185	58.979	60.699	97.466	94.714	96.090
0.13000	94.895	89.500	92.198	64.0478	62.056	63.052	100.36	89.645	95.004

Bovine Thymus VDR への結合実験 (#7)

- ① リン酸カリバリアン作製 4°C保存
- ② $1\alpha, 25(\text{OH})_2\text{VD}_3$, #344, #346の希釈系列
- ③ $[26, 27\text{-methyl } ^3\text{H}] 1\alpha, 25(\text{OH})_2\text{VD}_3$ の濃度調整
100 μl とって とぼし 6.25mlの局エタ
- ④ disposable culture tube (12x75mm イワキ) に
sample / 50 μl 局エタ (②) を うすい順に 入れこ
(④⑤ → ①⑤ のように)
⑧ → ⑫ は 局エタのみ (分注器で)
- ⑤ レセプター溶液をつくる (lot 11043) ヤマサ
Thymus Receptorの容器に リン酸カリバリアン①を
5ml 加えて 静かにとくす。 さらに 50ml を
加え 静かにまぜる。
- ⑥ レセプター溶液 500 μl を blank (⑧⑨⑩⑪⑫)
1x 外の tube 1 に加える。
加えなかった tube 1 には buffer を 500 μl 加える
- ⑦ vortex で あわだて たいふう にかくはんする
- ⑧ rt で 1 hr pre incubation
ラック & ホールに 入れ
13:40 ~ 14:40 rt 22°C 5分

RI室

- ⑨ hot 溶液 (3) をすべての tube 1 に分注器で
50 μ l ずつ加える。
hot のみ count (97) (98) (99) (100) には
バイアルに入れる。

⑩ vortex で あわだてないようにかくはんする

⑪ ラックで ふたをして 4°C の RI 室の冷蔵庫に入れ
over night. 15=10~

97	16217.7 dpm
98	16349.9
99	16280.0
100	16634.8
101	54.3
102	28.3
103	42.7
104	56.9

平均 16370 dpm
45 dpm

10 ml の ACS-II を加えて アロカ A で 1 min
count する。
10 分で放置し 次の日に 10 分以内に 2 min
count

$$\left(\begin{array}{l} 16370 \text{ dpm} = 273 \text{ dps} = 273 \text{ Bq} \\ 11.4 \text{ GBq} / \text{mg} \text{ から } 24 \text{ pg} / \text{tube} \end{array} \right)$$

遠心 0°C スイッチ on

~ 9:25 RI室の

- ⑫ 前日のサンプルを冷蔵庫から出して total count
(93) (94) (95) (96) 以外の tube に DCC 液を
(Lot M602 ヤマサ) 200 μ l ずつ 分注器で加える
加えなかった tube には ① の バッファ を加える

- ⑬ tube を vortex

- ⑭ 4°C で 30 min 放置 9:50 ~ 10:20

- ⑮ 遠心 0°C 10 min 3000 rpm 10:30 ~ 10:40

- ⑯ 上澄を 500 μ l ずつ WHEATON の 20ml の
バイアルに移す バットの上に置く(とこを拭いておく)
(うすい川原に ① → ⑭ チップ ① 同い
チップ ⑤ ⑤ → ⑳)

- ⑰ ACS-II を 9.5ml ずつ加えて shake し
count (2 min) する アロカ A

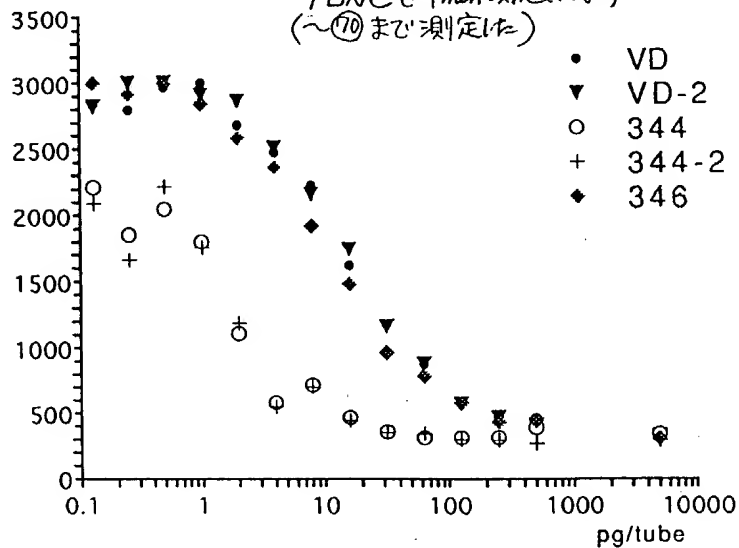
☆ バック
 ☆ バイアル
 ☆ カ注器
 ☆ セットマン 1000
 ☆ " 200

☆ レシ
 ☆ 4.47°C はん

AG
 0.1 0.2 0.5 1.0 2.0 5.0 10.0 20.0 50.0 100.0 200.0 500.0 1000.0 2000.0 5000.0 10000.0

Data #B7

アロカで 1min 測定したもの
 (~70 まで測定した)



MR

	L3		71221		2721	
150µl	10(250H) ₂ VD ₃		#344		#346	
5ng	290	325	308	296	338	305
500pg	357	363	325	312	445	386
250	444	529	318	302	445	477
125	608	623	326	324	528	573
63	802	806	349	326	698	623
32	1094	1166	391	387	1041	913
16	1701	1676	458	369	1395	1357
8	2164	2109	658	663	1834	1822
4	2494	2511	568	520	2428	2180
2	2519	2536	1145	1161	2766	2499
1	2879	2768	1739	1819	2768	2763
0.5	2862	2924	2081	2062	2762	2768
0.25	2851	2959	1942	1847	2910	2834
0.13	2839	2690	1987	1932	2990	2694

EXHIBIT 1 (SMR) SERIES

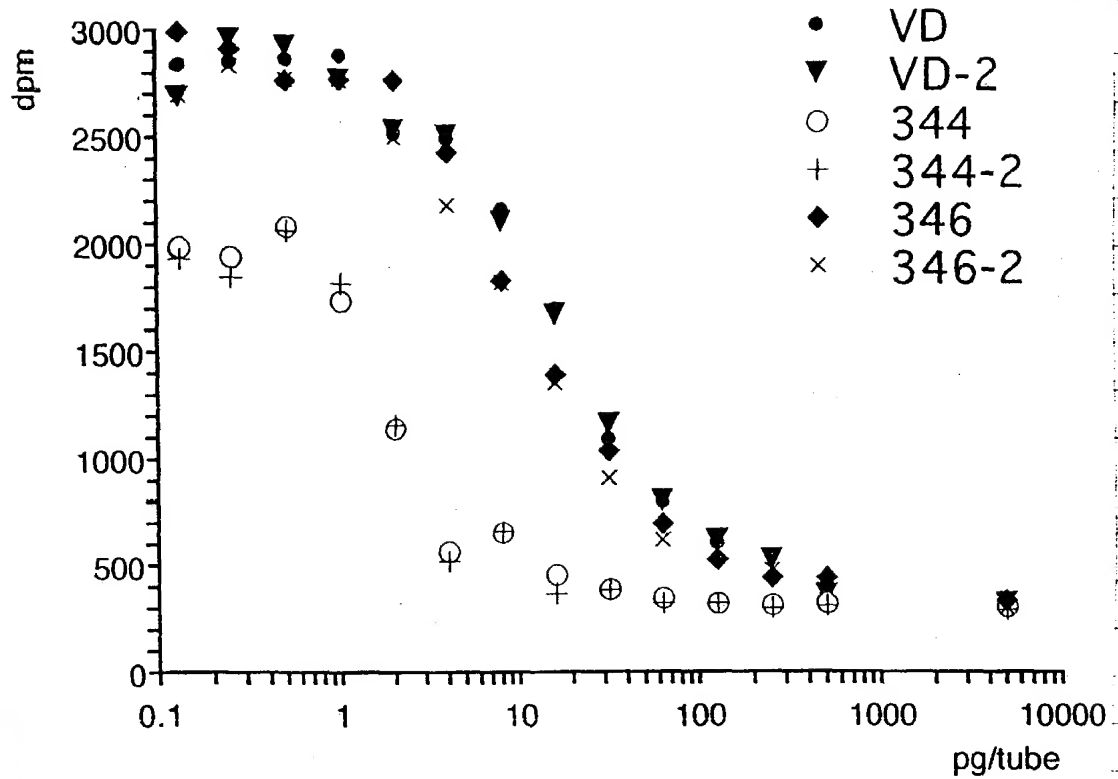
0	⁸⁵ 2744	⁸⁶ 2982	⁸⁷ 3149	⁸⁸ 3048	2980
blank	⁸⁹ 224	⁹⁰ 166	⁹¹ 174	⁹² 311	218
total count	⁹³ 7965	⁹⁴ 8280	⁹⁵ 8052	⁹⁶ 8325	8155
入射量	⁹⁷ 16184	⁹⁸ 15926	⁹⁹ 16360	¹⁰⁰ 16561	16257
blank	¹⁰¹ 27	¹⁰² 59	¹⁰³ 43	¹⁰⁴ 34	40

(2762)

すべての実験値から 218 を引いて $(2980 - 218) \times$
 割合 $\times 100$ して Bias [%] を計算

$$50 + 500 + \frac{50}{200}$$

#B7



	pg/tube	VD	VD-2	344	344-2	346	346-2
0	5000.0	290.00	325.00	308.000	296.00	338.00	305.00
1	500.00	357.00	363.00	325.000	312.00	445.00	386.00
2	250.00	444.00	529.00	318.000	302.00	445.00	477.00
3	125.00	608.00	623.00	326.000	324.00	528.00	573.00
4	63.000	802.00	806.00	349.000	326.00	698.00	623.00
5	32.000	1094.0	1166.0	391.000	387.00	1041.0	913.00
6	16.000	1701.0	1676.0	458.000	369.00	1395.0	1357.0
7	8.0000	2164.0	2109.0	658.000	663.00	1834.0	1822.0
8	4.0000	2494.0	2511.0	568.000	520.00	2428.0	2180.0
9	2.0000	2519.0	2536.0	1145.00	1161.0	2766.0	2499.0
10	1.0000	2879.0	2768.0	1739.00	1819.0	2768.0	2763.0
11	0.50000	2862.0	2924.0	2081.00	2062.0	2762.0	2768.0
12	0.25000	2851.0	2959.0	1942.00	1847.0	2910.0	2834.0
13	0.13000	2839.0	2690.0	1987.00	1932.0	2990.0	2694.0

dpm

#B2 88% 1/2 B7 80%
 #B3 84% 1/4 91/30
 #B4 84% 1/4

<結果>

$$\text{blank} = \frac{224 + 166 + 174 + 311}{4} = 218$$

$$\text{coldn } 0 = \frac{2744 + 2982 + 3149 + 3048}{4} = 2980$$

(すべての実験値から blank の平均値 218 を引いて
 drug 0 のときの平均 2980 から 218 をひいたもの
 (2980 - 218 = 2762) で 除し 100 をかけ 結合率を
 計算した。

$$\text{total count} = \frac{17965 + 8280 + 8052 + 8325}{4} = 8155 \text{ dpm}$$

$$8155 / 60 = 136 \text{ Bq}$$

800 μl + 500 μl として count (K) ので

$$136 \times \frac{8}{5} = 217 \text{ Bq}$$

11.4 GBq/mg のので

19 pg/tube

入れた量の平均は 16257 dpm であるので

271 Bq 以下

24 pg/tube

80% ぐらいが 溶液中に存在し

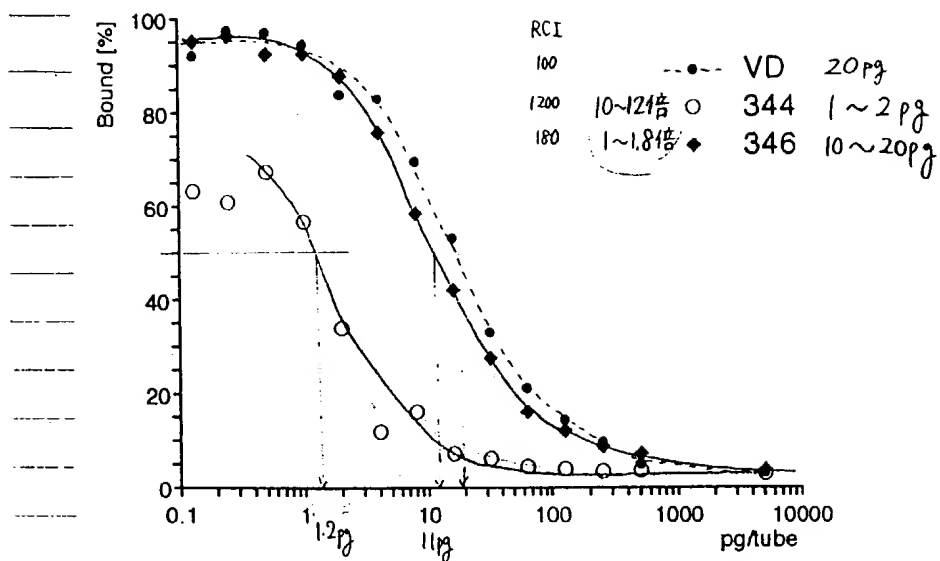
あとはガラス壁等に吸着していると考えられる。

$$217 \text{ Bq/tube} = \frac{217}{4.85 \text{ L} / (50 + 500 + 50) \mu\text{l}} = 0.075 \text{ nM}$$

又は 10.25 nM といえる。これは二つとも count が正しい場合

Bovine
Chicken

#B7(edit)



pg/tube	VD	VD-2	VD-	344	344-2	344-	346	346-2	346-
5000.0	2.6068	3.8740	3.2404	3.25851	2.8240	3.0413	4.3447	3.1499	3.7473
500.00	5.0326	5.2498	5.1412	3.87400	3.4033	3.6387	8.2187	6.0825	7.1506
250.00	8.1825	11.260	9.7212	3.62056	3.0413	3.3309	8.2187	9.3773	8.7980
125.00	14.120	14.663	14.392	3.91021	3.8378	3.8740	11.224	12.853	12.038
63.000	21.144	21.289	21.217	4.74294	3.9102	4.3266	17.379	14.663	16.021
32.000	31.716	34.323	33.020	6.26358	6.1188	6.1912	29.797	25.163	27.480
16.000	53.693	52.788	53.240	8.68936	5.4671	7.0782	42.614	41.238	41.926
8.0000	70.456	68.465	69.461	15.9305	16.112	16.021	58.508	58.074	58.291
4.0000	82.404	83.020	82.712	12.6720	10.934	11.803	80.014	71.035	75.525
2.0000	83.309	83.925	83.617	33.5626	34.142	33.852	92.252	82.585	87.419
1.0000	96.343	92.324	94.334	55.0688	57.965	56.517	92.324	92.143	92.234
0.50000	95.728	97.972	96.850	67.4511	66.763	67.107	92.107	92.324	92.216
0.25000	95.329	99.240	97.285	62.4185	58.979	60.699	97.466	94.714	96.090
0.13000	94.895	89.500	92.198	64.0478	62.056	63.052	100.36	89.645	95.004

#B7

POXA

2min

BY NO. 24 (H-S DPM ESCR 2min)

15:07

CYCLE : 1

[1] PRESET TIME (Min.) 2.0
 [2] REPEAT 1
 [3] CYCLE 1
 [4] DATA DPM
 [5] ISOTOPE H
 [6] B.K.G SUB NO
 [7] HEAD PRINT YES

* FUNCTION MODE *

[1] STANDARDIZATION ESCR
 [2] CURVE AUTO
 [3] REJECT NO
 [4] ESCR PRESET TIME (Min.) 0.4
 [5] CONSTANT RATIO NO
 [6] CLEAR CHECK NO
 [7] % ERROR NO
 [8] FORMATTING NO
 [9] FILE NO
 [10] REPEAT REPLICATE NO
 [11] AWS YES
 [12] QUENCHING LEVEL AUTO
 [13] BECQUEREL NO
 [14] HALF LIFE NO
 [15] CALCULATION NO
 [16] HISTOGRAM NO

CURVE NO. = 3

LOW ENERGY Q:N A= -0.00789 B= 0.41072 C= 0.45704 D=-124.77272
 LOW ENERGY Q:H A= 0.00660 B= 0.20210 C= 0.42623 D= -2.11626

NO	ESCR	TIME	H-CPM	H-DPM	H-EFF
1	26.26	2.0	80.5	290.6	27.70
2	26.18	2.0	97.5	357.9	27.24
3	26.20	2.0	121.5	444.1	27.36
4	26.24	2.0	168.0	608.9	27.59
5	26.22	2.0	220.5	802.6	27.47
6	26.20	2.0	299.5	1094.7	27.36
7	26.22	2.0	467.5	1701.8	27.47
8	26.26	2.0	599.5	2164.0	27.70
9	26.20	2.0	682.5	2494.5	27.36
10	26.24	2.0	695.0	2519.1	27.59
11	26.24	2.0	794.5	2879.8	27.59
12	26.26	2.0	793.0	2862.5	27.70
13	26.26	2.0	790.0	2851.6	27.70
14	26.18	2.0	773.5	2839.1	27.24
15	26.22	2.0	89.5	325.8	27.47
16	26.20	2.0	99.5	363.7	27.36
17	26.22	2.0	145.5	529.6	27.47
18	26.20	2.0	170.5	623.2	27.36
19	26.24	2.0	222.5	806.5	27.59
20	26.22	2.0	320.5	1166.5	27.47
21	26.24	2.0	462.5	1676.4	27.59
22	26.22	2.0	579.5	2109.2	27.47
23	26.20	2.0	687.0	2511.0	27.36
24	26.22	2.0	697.0	2536.9	27.47
25	26.22	2.0	760.5	2768.0	27.47
26	26.22	2.0	803.5	2924.5	27.47
27	26.22	2.0	813.0	2959.1	27.47
28	26.28	2.0	748.5	2690.7	27.82
29	26.20	2.0	84.5	308.8	27.36
30	26.22	2.0	89.5	325.8	27.47
31	26.22	2.0	87.5	316.5	27.47
32	26.26	2.0	90.5	326.7	27.70
33	26.24	2.0	96.5	349.8	27.59
34	26.24	2.0	108.0	391.5	27.59
35	26.20	2.0	125.5	458.7	27.36
36	26.26	2.0	182.5	658.8	27.70
37	26.20	2.0	155.5	568.4	27.36
38	26.20	2.0	313.5	1145.8	27.36
39	26.24	2.0	480.0	1739.8	27.59
40	26.22	2.0	572.0	2081.9	27.47
41	26.24	2.0	536.0	1942.8	27.59
42	26.22	2.0	546.0	1987.3	27.47
43	26.20	2.0	81.0	296.1	27.36
44	26.28	2.0	87.0	312.8	27.82
45	26.24	2.0	83.5	302.7	27.59
46	26.24	2.0	89.5	324.4	27.59

21	26.24	2.0	462.5	1676.4	27.59
22	26.22	2.0	579.5	2109.2	27.47
23	26.22	2.0	687.0	2311.0	27.36
24	26.22	2.0	697.0	2536.9	27.47
25	26.22	2.0	760.5	2768.0	27.47
26	26.22	2.0	803.5	2924.5	27.47
27	26.22	2.0	813.0	2959.1	27.47
28	26.25	2.0	748.5	2690.7	27.82
29	26.20	2.0	84.5	308.8	27.36
30	26.22	2.0	89.5	325.8	27.47
31	26.22	2.0	87.5	318.3	27.47
32	26.25	2.0	90.5	326.7	27.70
33	26.24	2.0	96.5	349.8	27.59
34	26.24	2.0	108.0	351.5	27.59
35	26.20	2.0	125.5	458.7	27.36
36	26.25	2.0	182.5	658.8	27.70
37	26.20	2.0	155.5	568.4	27.36
38	26.20	2.0	313.5	1145.8	27.36
39	26.24	2.0	480.0	1739.8	27.59
40	26.22	2.0	572.0	2081.9	27.47
41	26.24	2.0	535.0	1942.8	27.59
42	26.22	2.0	546.0	1987.3	27.47
43	26.20	2.0	81.0	296.1	27.36
44	26.28	2.0	87.0	312.8	27.82
45	26.25	2.0	83.5	302.7	27.59
46	26.24	2.0	89.5	324.4	27.59
47	26.24	2.0	90.0	326.2	27.59
48	26.24	2.0	107.0	387.8	27.59
49	26.24	2.0	102.0	369.7	27.59
50	26.24	2.0	183.0	664.3	27.59
51	26.25	2.0	143.5	520.1	27.59
52	26.22	2.0	319.0	1161.1	27.47
53	26.24	2.0	502.0	1819.6	27.59
54	26.24	2.0	569.0	2062.4	27.59
55	26.22	2.0	507.5	1847.2	27.47
56	26.22	2.0	531.0	1932.7	27.47
57	26.20	2.0	92.5	338.1	27.36
58	26.20	2.0	122.0	445.9	27.36
59	26.25	2.0	123.5	445.8	27.70
60	26.20	2.0	144.5	528.1	27.36
61	26.22	2.0	192.0	698.8	27.47
62	26.22	2.0	286.0	1041.0	27.47
63	26.24	2.0	385.0	1395.5	27.59
64	26.24	2.0	506.0	1834.1	27.59
65	26.18	2.0	661.5	2428.0	27.24
66	26.22	2.0	760.0	2766.2	27.47
67	26.20	2.0	757.5	2768.7	27.36
68	26.22	2.0	759.0	2762.6	27.47
69	26.22	2.0	799.5	2910.0	27.47
70	26.22	2.0	821.5	2990.0	27.47
71	26.25	2.0	84.5	305.0	27.70
72	26.24	2.0	106.5	386.0	27.59
73	26.18	2.0	130.0	477.2	27.24
74	26.22	2.0	157.5	573.3	27.47
75	26.20	2.0	170.5	623.2	27.36
76	26.22	2.0	251.0	913.6	27.47
77	26.22	2.0	373.0	1357.6	27.47
78	26.20	2.0	498.5	1822.0	27.36
79	26.25	2.0	504.0	2180.2	27.70
80	26.16	2.0	678.0	2499.1	27.13
81	26.20	2.0	756.0	2763.2	27.36
82	26.22	2.0	760.5	2768.0	27.47
83	26.20	2.0	775.5	2834.5	27.36
84	26.18	2.0	734.0	2694.1	27.24
85	26.22	2.0	754.0	2744.4	27.47
86	26.22	2.0	819.5	2982.8	27.47
87	26.24	2.0	859.0	3149.8	27.59
88	26.22	2.0	837.5	3048.3	27.47
89	26.28	2.0	62.5	224.7	27.82
90	26.30	2.0	46.5	166.5	27.93
91	26.32	2.0	49.0	174.7	28.05
92	26.30	2.0	87.0	311.5	27.93
93	26.24	2.0	2197.5	7965.1	27.59
94	26.25	2.0	2294.0	8280.6	27.70
95	26.22	2.0	2212.5	8052.9	27.47
96	26.24	2.0	2297.0	8325.8	27.59
97	27.46	2.0	5542.0	16184.1	34.24
98	27.52	2.0	5503.0	15926.2	34.55
99	27.52	2.0	5653.0	16360.3	34.55
100	27.56	2.0	5756.5	16561.4	34.76
101	27.64	2.0	9.5	27.0	35.17
102	27.62	2.0	21.0	59.9	35.07
103	27.58	2.0	15.0	43.0	34.86
104	27.60	2.0	12.0	34.3	34.96